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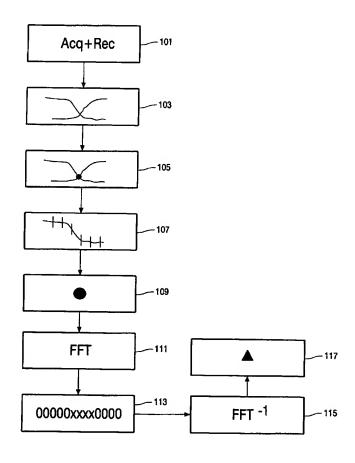
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(54) Title: METHOD OF DEFINING A SURFACE OR A VOLUME BY FOURIER INTERPOLATION



(57) Abstract: The invention relates to a method of defining a surface or a volume in a three-dimensional, and in particular medical, data set. At least two starting lines (11, 13), which preferably lie in mutually perpendicular planes and intersect one another, having been preset, contour lines (31) that lie between the starting lines (11, 13) are determined by Fourier transformation. These contour lines (31) form a surface structure (63) from which a surface can be determined by polygonization, e.g. by triangulation. If the starting lines are closed, the surface too is closed and defines a volume.

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX, INSPEC, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
A	US 2001/033283 A1 (MOELLER THOMAS ET AL) 25 October 2001 (2001-10-25) cited in the application paragraphs '0044!-'0053!,'0081!-'0105!; claims 1-31; figures 1-5,8-10,12,13	1-9			
A	RICK LYONS: "How to interpolate in the Time-Domain by Zero-Padding in the Frequency Domain" INTERPOLATE IN THE TIMEPADDING IN THE FREQUENCY DOMAIN, 'Online! 13 January 2001 (2001-01-13), XP002281208 Retrieved from the Internet: <url:http: howto="" tech="" www.dspguru.com="" zeropad.htm=""> 'retrieved on 2004-05-21! the whole document -/</url:http:>	1-9			

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	C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	· · · · · · · · · · · · · · · · · · ·	Relevant to claim No.				
A	M. H. KUO; M.C. CHEN: "Biomedical Data Interpolation for 3D Visual Models" 6TH INTERNATIONAL CONFERENCE ON COMPUTER GRAPHICS AND VISUALIZATION, vol. 2, 1998, pages 208-214, XP008030864 page 206, left hand column, the paragraph starting with "The one-dimensional"		1-9				
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